

In the Claims

Please amend Claims 1, 2 and 9, and add Claims 36-49, as shown in the following listing:

1 1. (Currently Amended.) A self-powered, ~~mobile,~~ substantially stationary structure which
2 comprises a spinning body substantially enclosing a self-contained drive mechanism powered by
3 energy derived from electromagnetic radiations, ~~and biased by~~ in co-reaction with the direction of
4 an ambient field of energy.

1 2. (Currently Amended.) ~~The structure of Claim 1 which further comprises:~~ A self-powered,
2 substantially stationary structure which comprises:

3 a spinning body substantially enclosing a self-contained drive mechanism powered by energy
4 derived from electromagnetic radiations, and biased by the direction of an ambient field of energy;

5 a volume of fluid;

6 an enclosure substantially buoyantly supported by said fluid;

7 a directional bearing locator associated with said enclosure and responsive to said ambient
8 field of energy;

9 means for collecting energy from said electromagnetic radiation; and

10 wherein said drive mechanism comprises means for moving said ~~enclosures~~ enclosure in
11 reference to said locator and in response to said means for collecting.

1 3. (Original.) The structure of Claim 2 wherein said means for moving comprise an
2 electro-mechanical device for rotating said enclosure about a first axis.

1 4. (Original.) The structure of Claim 3 wherein:

2 said electromagnetic radiations comprise light waves; and

3 said means for collecting comprise a photovoltaic collector generating an electrical current

4 when exposed to said light waves.

1 5. (Original.) The structure of Claim 4 wherein said electro-mechanical device comprises an

2 electrical motor energized by said electrical current.

1 6. (Original.) The structure of Claim 3 wherein:

2 said electromagnetic radiations comprise radio frequency waves; and

3 said means for collecting comprise an antenna and a radio frequency receiver generating an

4 electrical current when said antenna is exposed to said radio frequency waves.

1 7. (Original.) The structure of Claim 6, wherein said electro-mechanical device comprises an

2 electrical motor powered by said electrical current.

1 8. (Original.) The structure of Claim 3, wherein:

2 said ambient field of energy comprises the earth gravity; and

3 said locator comprises a gravity force sensor.

1 9. (Currently Amended.) The structure of Claim 8, wherein said gravity force sensor comprise a

weight mounted on an axle substantially aligned with said axis; and

further comprises a magnet substantially ~~parallel~~ perpendicular to said axis.

10. (Original.) The structure of Claim 3, wherein:

said ambient field of energy comprises the earth magnetic field; and

said locator comprises means for detecting said earth magnetic field.

11. (Original.) The structure of Claim 3 which further comprises a container holding said fluid; and

said enclosure is held within said container and spaced apart thereof by said fluid.

12. (Original.) The structure of Claim 11, wherein said enclosure and said container are closed and

said fluid substantially surrounds said enclosure;

and wherein said enclosure and said container have similar shapes.

13. (Original.) The structure of Claim 12 wherein said enclosure and said container consist of

hollow spheres.

14. (Original.) The structure of Claim 12, wherein:

said enclosure and said container are made of light-permeable material;

said electromagnetic radiation comprises light waves;

said means for collecting comprise a photovoltaic collector, associated with said enclosure,

generating an electrical current when exposed to said light waves.

1 15. (Original.) The structure of Claim 12, wherein:

2 said electromagnetic radiations comprise radio frequency waves;

3 said means for collecting comprise an antenna and a radio frequency receiver generating an
4 electrical current when said antenna is exposed to said radio frequency waves;

5 said electro-mechanical device is powered by said electrical current.

1 16. (Original.) The structure of Claim 3, wherein said electro-mechanical device comprises:

2 a motor having a rotor and a stator, one of said rotor and stator being fixedly attached to said
3 enclosure, and the other fixedly attached to said locator.

1 17. (Original.) The structure of Claim 3, wherein said ambient field or energy comprises a magnetic
2 field; and

3 said electro-mechanical device comprises:

4 at least one magnetic field sensor responsive to said magnetic field; and

5 means for repeatedly enabling said sensor.

1 18. (Original.) The structure of Claim 17, wherein said electro-mechanical device further comprises
2 an axle substantially aligned with said axis, and said magnetic field sensor is radially mounted
3 around said axle.

1 19. (Original.) The structure of Claim 18, wherein;

2 said sensor are rotatably connected to said axle and fixedly attached to said enclosure:
3 and said axle is fixedly attached to said locator.

1 20. (Original.) The structure of Claim 17, wherein said locator comprises a magnetic field sensor.

1 21. (Original.) The structure of Claim 17, wherein:

2 said sensor comprises an electromagnet which when enabled rotatably aligns itself with said
3 magnetic field; and

4 said means for enabling comprise means for selectively applying a feeding current to said
5 electromagnet.

1 22. (Original.) The structure of Claim 21, wherein means for selectively enabling comprise a
2 commutating mechanism connectively biased by said locator to enable said electromagnet when said
3 electromagnet is not aligned with said magnetic field.

1 23. (Original.) The structure of Claim 22, wherein:

2 said electromagnetic radiations further comprise light waves;

3 said means for collecting energy comprise a photovoltaic collector responsive to said light
4 waves impinging upon said enclosure, and having an output connectable to said electromagnet; and

5 said commutating mechanism comprises a shutter associated with said locator, said shutter
6 being shaped and dimensioned to selectively mask said photovoltaic collector when said
7 electromagnet is aligned with said magnetic field.

1 24. (Original.) The structure of Claim 22, wherein:
2 said electromagnetic radiations further comprise radio frequency waves;
3 said means for collecting comprise an antenna and a radio frequency receiver generating an
4 electrical current when said antenna is exposed to said radio frequency waves; and
5 said commutating mechanism comprises an electrical impulse distributor responsive to the
6 orientation of said locator in relation to each of said electromagnets to selectively apply said current
7 to said electromagnet.

1 25. (Original.) The structure of Claim 22, wherein said magnetic field comprises the earth magnetic
2 field.

1 26. (Original.) The structure of Claim 22 which further comprises at least one means positioned
2 outside said enclosure to generate said magnetic field.

1 27. (Original.) The structure of Claim 8, wherein said gravity force sensor comprises a weight
2 rotatably connected to said enclosure, said weight having a center of gravity held distally from said
3 axis.

1 28. (Original.) The structure of Claim 3, wherein:
2 said electro-mechanical device comprises at least one electromagnet and a commutating
3 mechanism;

4 said locator comprises a weight rotatably connected to said enclosure, said weight having a
5 center of gravity held distally from said axis; and

6 said commutating mechanism comprises gravity switches responsive to the vertical
7 orientation of said electromagnet.

1 29. (Original.) The structure of Claim 21, wherein said means for selectively applying comprise a
2 mechanism responsive to the relative orientation of said magnetic field and the direction of said
3 ambient field of energy.

1 30. (Original.) The structure of Claim 29, wherein:

2 said ambient field of energy comprising light waves impinging upon said enclosure; and

3 said mechanism comprises:

4 at least two photosensors for producing control currents for said electromagnet;

5 each of said sensors having a photo-sensitive surface, wherein the photo-sensitive surface
6 of each of said sensors lies within a different plane than the plane of the photo-sensitive surface of
7 any other sensor.

1 31. (Original.) The structure of Claim 30 which further comprises:

2 at least one photovoltaic collector having a photo-sensitive surface, and producing said
3 feeding current.

1 32. (Original.) The structure of Claim 10, wherein said electro-mechanical device comprises at

2 least one electromagnet generating a polarizing magnetic field; and
3 which further comprises at least one coil proximate said means for detecting, and at least one
4 switch wired to energize said coil and create a corrective magnetic field opposite to said polarizing
5 magnetic field.

1 33. (Original.) The structure of Claim 17, wherein said means for repeatedly enabling said sensor
2 comprises means mounted of said magnetic field sensor, for generating a voltage having a polarity
3 responsive to the orientation of said sensor.

1 34. (Original.) The structure of Claim 1 which further comprises a pivot supporting said structure
2 above a surface.

1 35. (New.) A self powered, substantially stationary structure which comprises a spinning body
2 substantially enclosing a drive mechanism powered by energy derived from electromagnetic
3 radiations, wherein said mechanism includes a counter-torque element immobilizingly anchored by
4 the direction of an ambient field of energy.

1 36. (New.) The structure of Claim 35 wherein said drive mechanism comprises an electro-
2 mechanical device for rotating said body about a first axis.

1 37. (New.) The structure of Claim 36 which further comprises means for collecting said
2 electromagnetic radiations; and wherein:

3 said electromagnetic radiations comprise light waves; and
4 said means for collecting comprise a photovoltaic collector generating an electrical current
5 when exposed to light.

1 38. (New.) The structure of Claim 37 wherein said electro-mechanical device comprises a motor
2 energized by said electrical current.

1 39. (New.) The structure of Claim 35 which further comprises means for collecting said
2 electromagnetic radiations; and wherein;
3 said electromagnetic radiations comprise radio frequency waves; and
4 said means for collecting comprise an antenna and a radio frequency receiver generating an
5 electrical current when said antenna is exposed to said radio frequency waves.

1 40. (New.) The structure of Claim 36 wherein said electro-mechanical device comprises an
2 electrical motor.

1 41. (New.) The structure of Claim 36, wherein;
2 said ambient field of energy comprises gravity; and
3 said drive mechanism further comprises a gravity force sensor.

1 42. (New.) The structure of Claim 41 wherein said gravity force sensor comprises a weight mounted
2 on an axle substantially aligned with said axis; and

3. a magnet substantially perpendicular to said axis.

1 43. (New.) The structure of Claim 35, wherein;

2 said ambient field of energy comprises the earth's magnetic field; and

3 said drive mechanism further comprises a magnetism force sensor.

1 44. (New.) The structure of Claim 36 which further comprises a container holding a fluid; and

2 said body comprises an enclosure held within said container and spaced apart thereof by said

3 fluid.

1 45. (New.) The structure of Claim 44, wherein said enclosure and said container are closed and said

2 fluid substantially surrounds said enclosure; and

3 said enclosure and said container have similar shapes.

1 46. (New.) The structure of Claim 45 wherein said enclosure and said container consist of hollow

2 spheres.

1 47. (New.) The structure of Claim 44, wherein:

2 said enclosure and said container are made of light permeable material;

3 said electromagnetic radiation comprises light waves;

4 said drive mechanism further comprises a photovoltaic collector, associated with said

5 enclosure, generating electrical current when exposed to said light waves; and

6 said electro-mechanical device is powered by said electrical current.

1 48. (New.) The structure of Claim 44, wherein;

2 said electromagnetic radiations comprise radio frequency waves;

3 said mean for collecting comprise an antenna and a radio frequency receiver generating an
4 electrical current when said antenna is exposed to said radio frequency waves; and

5 said electro-mechanical device is powered by said electrical current.

1 49. (New.) The structure of Claim 41, wherein said body comprises an enclosure spinning about
2 said axis; and

3 said gravity force sensor comprises a weight rotatably connected to said enclosure, said
4 weight having a center of gravity held distally from said axis.